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                   present
 NEWS  4  DEC 08   INPADOC: Legal Status data reloaded
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 NEWS  6  OCT 10   PCTFULL: Two new display fields added
 NEWS  7  OCT 21   BIOSIS file reloaded and enhanced
 NEWS  8  OCT 28   BIOSIS file segment of TOXCENTER reloaded and enhanced
 NEWS  9  NOV 24   MSDS-CCOHS file reloaded
 NEWS 10  DEC 08   CABA reloaded with left truncation
 NEWS 11  DEC 08   IMS file names changed
 NEWS 12  DEC 09   Experimental property data collected by CAS now available
                   in REGISTRY
 NEWS 13  DEC 09   STN Entry Date available for display in REGISTRY and CA/CAplus
 NEWS 14  DEC 17   DGENE: Two new display fields added
 NEWS 15  DEC 18   BIOTECHNO no longer updated
 NEWS 16  DEC 19   CROPU no longer updated; subscriber discount no longer
                   available
 NEWS 17  DEC 22   Additional INPI reactions and pre-1907 documents added to CAS
                   databases
 NEWS 18  DEC 22   IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
 NEWS 19  DEC 22   ABI-INFORM now available on STN
 NEWS 20  JAN 27   Source of Registration (SR) information in REGISTRY updated
                   and searchable
 NEWS 21  JAN 27   A new search aid, the Company Name Thesaurus, available in
                   CA/CAplus
 NEWS 22  FEB 05   German (DE) application and patent publication number format
                   changes
 NEWS 23  MAR 03   MEDLINE and LMEDLINE reloaded
 NEWS 24  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS 25  MAR 03   FRANCEPAT now available on STN

 NEWS EXPRESS  MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
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=> s creatine amidinohydrolase or creatinase
L1 756 CREATINE AMIDINOHYDROLASE OR CREATINASE

=> s l1 (10a) creatine
L2 412 L1 (10A) CREATINE

=> s l2 (5a)(michaelis or km)
L3 6 L2 (5A)(MICHAELIS OR KM)

=> s l2 (10a)(michaelis or km)
L4 10 L2 (10A)(MICHAELIS OR KM)

=> dup rem l4
PROCESSING COMPLETED FOR L4
L5 6 DUP REM L4 (4 DUPLICATES REMOVED)

=> d 1-6

L5 ANSWER 1 OF 6 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
AN 1997-11458 BIOTECHDS
TI ***Creatine*** - ***amidinohydrolase*** enzymes with low ***Km***
; creatinase characterization
AU Sogabe A; Hattori T; Nishiya Y; Kawamura Y
PA Toyo-Boseki
LO Osaka, Japan.
PI EP 790303 20 Aug 1997
AI EP 1997-102270 13 Feb 1997
PRAI JP 1996-25435 13 Feb 1996
DT Patent
LA English
OS WPI: 1997-404731 [38]

L5 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
AN 1995:731732 HCAPLUS
DN 123:106520
TI Isolation, characterization and preparation procedure of a creatine amidinohydrolase from Alcaligenes
IN Furukawa, Keisuke; Hashimoto, Kyoko; Suzuki, Masaru

PA Kikkoman Corp., Japan
SO Ger. Offen., 12 pp.
    CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4445084	A1	19950622	DE 1994-4445084	19941216
	JP 07170979	A2	19950711	JP 1993-318675	19931217
	JP 2788174	B2	19980820		
	US 5451520	A	19950919	US 1994-343972	19941118
PRAI	JP 1993-318675		19931217		

L5 ANSWER 3 OF 6 LIFESCI COPYRIGHT 2004 CSA on STN
AN 97:10782 LIFESCI
TI Creatine amidinohydrolase from Alkaligenes sp. ks-85 ferm bp-4487
CS KIKKOMAN CORPORATION
SO (1995) . US Patent 5451520; US Cl. 435/227 435/252.1 435/829.
DT Patent
FS A; W2
LA English

L5 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
AN 1989:228145 HCAPLUS
DN 110:228145
TI Method and reagent for enzymic determination of creatine and creatinine in body fluids
IN Suzuki, Masaru
PA Noda Institute for Scientific Research, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
    CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63182000	A2	19880727	JP 1987-13645	19870123
	JP 06098032	B4	19941207		
	US 5047329	A	19910910	US 1988-141043	19880105
PRAI	JP 1987-13645		19870123		
OS	MARPAT 110:228145				

L5 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1980:442293 HCAPLUS
DN 93:42293
TI Presence of creatinase and sarcosine dehydrogenase in human skeletal muscle. Proposal for creatine-urea pathway
AU Miyoshi, Kazuo; Taira, Akira; Yoshida, Kenzo; Tamura, Katsuya; Uga, Shigetoshi
CS Sch. Med., Tokushima Univ., Tokushima, Japan
SO Proceedings of the Japan Academy, Series B: Physical and Biological Sciences (1980), 56(2), 95-8
    CODEN: PJABDW; ISSN: 0386-2208
DT Journal
LA English

L5 ANSWER 6 OF 6 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
AN 1976-77945X [42] WPIDS
TI Creatine amid (in)hydrolase enzyme - obtd from strains of Flavobacterium, Micrococcus or Corynebacterium.
DC A97 B04 D16 S03 S05
PA (NODA) NODA INST SCI RES
CYC 3

PI	DE 2614114	A	19761007 (197642)*	
	JP 51115989	A	19761013 (197648)	
	JP 51118884	A	19761019 (197649)	
	JP 52008394	B	19770309 (197713)	
	JP 52008395	B	19770309 (197713)	
	US 4039384	A	19770802 (197732)	
	DE 2614114	B	19780831 (197836)	
PRAI	JP 1975-40792		19750405; JP 1975-40793	19750405

IC C07G007-02; C12D013-10; C12K001-00; G01N033-16

=> d 2-6 kwic

L5 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
IT ***Michaelis*** constant
Urine analysis
(isolation, characterization and prepn. procedure of ***creatine***
amidinohydrolase from Alcaligenes)

L5 ANSWER 3 OF 6 LIFESCI COPYRIGHT 2004 CSA on STN
AB . . . for 30 min.; (g) inhibitors: AgNO.sub.3, HgCl.sub.2, CuSO.sub.4, etc.; and (h) molecular weight: about 80,000.+-.5000 as determined by gel filtration.The ***creatine*** ***amidinohydrolase*** is stable in high pH range and possesses a small ***Km*** value, so that it can be purified in high pH range resulting in more easy and simple production than the. . .

L5 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
AB . . . is treated with sarcosine oxidase for creatine or creatinine detn. A serum sample was treated with a 1st reagent contg. ***creatine*** ***amidinohydrolase*** , sarcosine oxidase [***Km*** = 11 mM], peroxidase, ascorbate oxidase, 2,4-dichlorophenol sulfonate, di-Na EDTA, Triton X-100 and pH 8.0 buffer at 37.degree. for 5. . .

L5 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
AB Creatinase activity was demonstrated in human skeletal muscle by urea formation from creatine in the muscle ext. ***Creatinase*** activity with respect to increasing ***creatine*** concns. gave a hyperbolic curve and the ***Km*** for creatine was 8.0 .times. 10-5M. Sarcosine dehydrogenase activity in human skeletal muscle was also demonstrated by the time-dependent redn.. . .

L5 ANSWER 6 OF 6 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
AB . . .
40-70 degrees C, an optimal action temp. of 65 degrees C, and a mol. wt. of ca 150000, and (b) ***creatine*** ***amidinohydrolase*** (II) having a ***Km*** value for ***creatine*** of 4 X 10-2 mol (37 degrees C, pH 7.7), a stable pH range of 5.9-9, an optimal pH of. . .

=> d 2-5 ab

L5 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
AB A faster, more sensitive creatinase was isolated for use in detection of creatine in human serum or urine. Creatine and creatinine can be used for diagnosis of specific kidney diseases. A creatine amidinohydrolase was isolated from Alcaligenes sp. KS-85 which had high creatine substrate specificity, a pH-optimum of 7-9, and a temp. optimum of 35-45 C. The enzyme was stable from pH 5.0 to 10.5 for 17 h at 25 C, and thermostable at 45 C for 30 min at pH 7.5. The gel filtration mol. wt. of the enzyme was 80,000 +/- 5,000. Because of its higher pH stability, this creatinase was easier to isolate. The Km value of the Alcaligenes creatinase was much lower so that less enzyme and less time were necessary for the detection of creatine.

L5 ANSWER 3 OF 6 LIFESCI COPYRIGHT 2004 CSA on STN
AB A creatine amidinohydrolase with the following physicochemical properties is prepared: (a) action: hydrolysis of 1 mole of creatine to form 1 mole of sarcosine and 1 mole of urea; (b) substrate specificity: specific for a creatine substrate; (c) optimum pH: 7-9; (d) optimum temperature: around 35.degree.-45.degree. C.; (e) pH stability: stable in the range of pH 5.0-10.5 at 25.degree. C. for 17 hours; (f) thermal stability: stable at a temperature up to about 45.degree. C. at pH 7.5 for 30 min.; (g) inhibitors: AgNO.sub.3, HgCl.sub.2, CuSO.sub.4, etc.; and (h) molecular weight: about 80,000.+-.5000 as determined by gel filtration.The ***creatine*** ***amidinohydrolase*** is stable in high pH range and possesses a small ***Km*** value, so that it can be purified in high pH range resulting in more easy and simple production than the conventional enzyme, and the lower Km value enables reduction in the period of time and in the amount of the enzyme for each measurement. The creatine amidinohydrolase is obtained by culturing Alkaligenes sp. KS-85 FERM BP-4487.

L5 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
AB In creatine or creatinine detn. with creatine amidinohydrolase with or without creatinine amidohydrolase, N-ethylglycine in a sample is enzymically degraded, and sarcosine formed from creatine is treated with sarcosine oxidase for creatine or creatinine detn. A serum sample was

treated with a 1st reagent contg. ***creatine*** ***amidinohydrolase*** , sarcosine oxidase [***Km*** = 11 mM], peroxidase, ascorbate oxidase, 2,4-dichlorophenol sulfonate, di-Na EDTA, Triton X-100 and pH 8.0 buffer at 37.degree. for 5 min and then with a 2nd reagent contg. creatinine amidohydrolase, sarcosine oxidase [Km = 77 mM], K ferrocyanide, 2,4-dichlorophenol sulfonate, 4-aminoantipyrine, di-Na EDTA, Triton X-100 and pH 8.0 buffer at 37.degree. for 5 min and analyzed at 510 nm for creatinine detn.

L5 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
AB Creatinase activity was demonstrated in human skeletal muscle by urea formation from creatine in the muscle ext. ***Creatinase*** activity with respect to increasing ***creatine*** concns. gave a hyperbolic curve and the ***Km*** for creatine was 8.0 .times. 10-5M. Sarcosine dehydrogenase activity in human skeletal muscle was also demonstrated by the time-dependent redn. of 2,6-dichlorophenolindophenol.

=> dis his

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 15:18:50 ON 16 MAR 2004

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L2 412 S L1 (10A) CREATINE
L3 6 S L2 (5A)(MICHAELIS OR KM)
L4 10 S L2 (10A)(MICHAELIS OR KM)
L5 6 DUP REM L4 (4 DUPLICATES REMOVED)

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